

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

CS 182 63 418 98

Responsible Party: Enduring Resources	OGRID: 372286
Contact Name: Chad Snell	Contact Telephone: 505-444-0586
Contact email: csnell@enduringresources.com	Incident # (assigned by OCD): ncs1831938444
Contact mailing address: 200 Energy Court	Farmington, New Mexico 87401

Location of Release Source

Latitude 36.144262 Longitude -107.576376
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: NEU 2207 16B	Site Type: Recycling Facility
Date Release Discovered: 11/2/18	API# (if applicable) 3RF-28

Unit Letter	Section	Township	Range	County
B	16	22N	7W	Sandoval

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 20 bbls	Volume Recovered (bbls): None
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

On 11/2/18, the settling tank at the NEU 2207 16B Recycling Facility overflowed when the filters plugged up. 20 bbls of produced water were released onto the pad and in the bermed area with none recovered.

WMOCD

JAN 23 2019

DISTRICT III

55

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: _____ Title: _____ Signature: _____ Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: _____ Date: _____

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>295</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chad Snell Title: HSE TECH

Signature:  Date: 1-22-19

email: csnell@enduringresources.com Telephone: (505)444-0586

OCD Only

Received by: OCD Date: 12/26/19

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 2/27/19

Printed Name: Cary Title: Environmental Spec.

NEU 2207 16B Remediation Narrative.

11/2/2018

On Friday 11/2/2018 a spill was reported at the NEU 2207 16B pond. Enduring personnel assessed the spill and calculated that 20 barrels of produced water overflowed onto the pad and in a berm area from laydown tanks. The spill was caused by the filters being plugged up and not allowing water to flow through which caused tanks to overflow. Samples were taken of the impacted soil as a reference. Cathodic well information available for a nearby location is present at approximately 340' below ground surface; see attached *Ground Bed drilling log*. This set the closure standard to 1,000 ppm TPH (DRO+GRO), 2,500 ppm TPH (DRO+GRO+MRO) 10 ppm Benzene, 50 ppm total BTEX, and 20,000 ppm Chlorides.

11/6/2018

Sample results returned showing no remediation is needed due to analysis being below spill rule standards for this site.

11/9/2018

Initial spill report was submitted to NMOCD.

11/15/2018

Notification of schedule closure sampling was sent to Cory Smith and Vanessa Fields of the NMOCD and scheduled for Tuesday November 20th 2018 at 9:00am. (See attached proof of notification).

11/20/2018

Confirmation samples were collected and sent in for analysis with Cory Smith of the NMOCD on site for witnessing. The impacted area in front of the laydown tanks was a 30'x10' impacted area. A composite sample was taken from the area. The majority of the spill area was broken up into 5 sections which a composite sample was collected. The sections were Labeled "North Section", "Middle Section", "South Section", which each section being broken into 23'X20' area and the "West 1" and "West 2", were broken up into two 25'X10' sections. Each composite sample was sent in for analysis of 8021(BTEX) 8015(GRO/DRO/MRO) and Chlorides.

11/29/2018

Sample analysis was received and after review of results, no remediation activates are required at this time due to samples being lower than NMOCD spill rule standards for the site being ranked at ground water being over 100 feet from surface; see *Sample Results Table* and *Analytical Results*.

2/26/2019

There are areas of the release that did not meet the 600 mg/kg reclamation requirement, however these areas are currently in use for the exploration and production of oil and gas. Once the areas are no longer in use or at final abandon, Enduring Resources will return to the impacted areas and ensure area is remediated them per 19.15.29 NMAC.

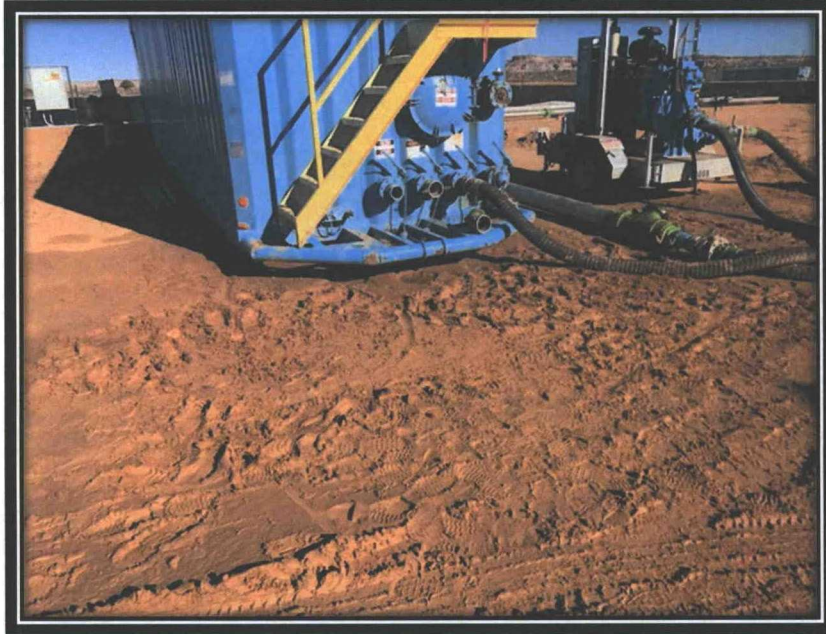
NEU 2207 16B Sample Results Table

Sample Name	Description	Date	Time	DRO	GRO	DRO+ GRO	ORO	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	Chlorides
				NA	NA	1000	NA	2500	10	NA	NA	NA	50	10,000
STANDARD	>100 feet to GW	NA	NA	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
North Section	Composite	11/2/2018	9:20 AM	44	< 20	64	<50	113.8	< 0.1	< 0.1	< 0.1	<0.1	<0.1	2640
Middle Section	Composite	11/2/2018	9:25 AM	42.3	< 20	62.3	<50	112.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	2550
South Section	Composite	11/2/2018	9:30 AM	<25	<20	<55	<50	105.0	< 0.1	< 0.1	0.277	<.1	3.87	1200
West Section	Composite	11/2/2018	9:35 AM	30.4	<20	50.4	<50	130.8	< 0.1	< 0.1	< 0.1	0.339	0.339	2980
Laydown tank Section	Composite	11/2/2018	9:40 AM	236	< 20	256	< 50	306.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	216
North Section	Composite	11/20/2018	10:25 AM	22.5	<.1	22.6	10.6	33.2	< 0.0005	< 0.005	< 0.0005	<0.0015	0.0075	521
Middle Section	Composite	11/20/2018	10:30 AM	40.9	<.1	41	6.63	47.6	< 0.0005	< 0.005	<0.0005	<0.0015	0.0075	1200
South Section	Composite	11/20/2018	10:35 AM	16.8	<.1	16.9	15.6	32.6	0.000875	< 0.005	<0.0005	<0.00150	0.007875	661
West 1 Section	Composite	11/20/2018	10:15 AM	<4.0	<.1	4.1	11.7	19.9	0.000508	< 0.005	<0.0005	<0.00150	0.012008	663
West 2 Section	Composite	11/20/2018	10:20 PM	<4.0	<.1	4.1	6.09	10.2	<0.0005	<0.005	<0.0005	<0.00150	0.0075	119
Laydown Tank Section	Composite	11/20/2018	10:40 PM	16	<.1	16.1	9.47	25.6	<0.0005	<0.005	<0.0005	<0.00150	0.0075	191

CLOSURE SAMPLES

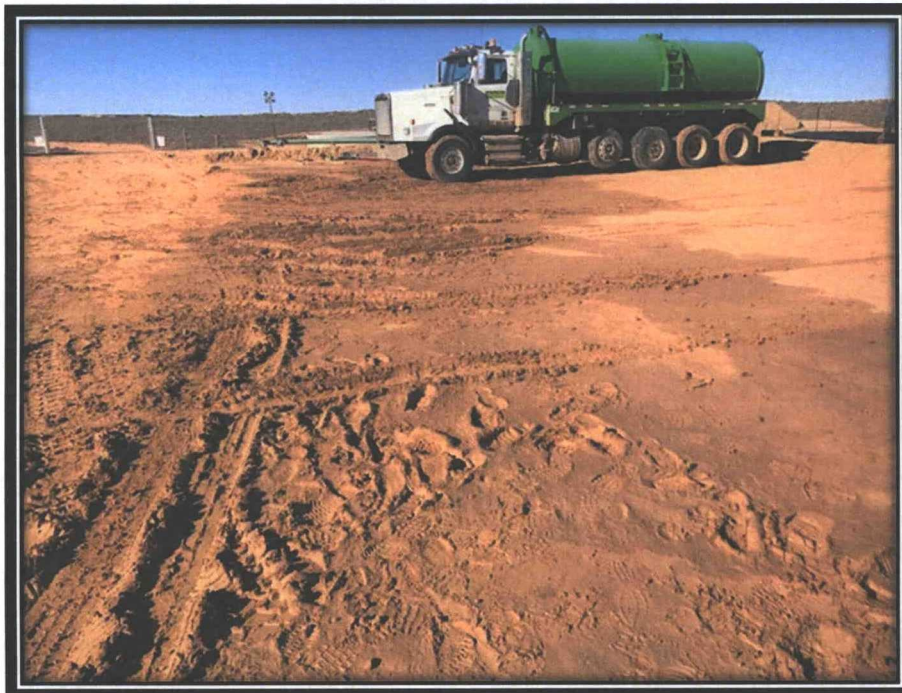


Enduring Resources, LLC
Spill Closure Report
NEU 2207 16B Pond
3RF-28



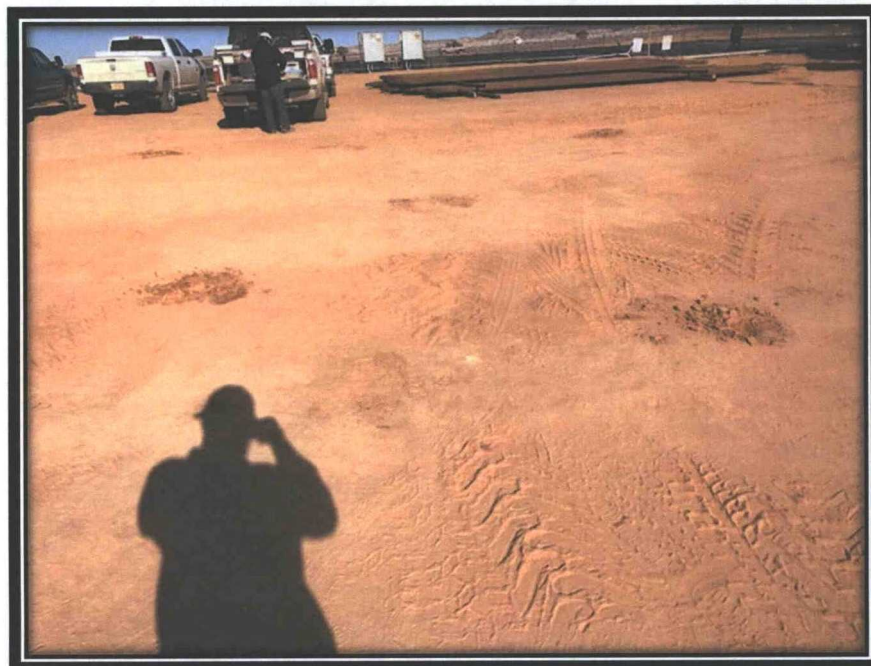


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3RF-28



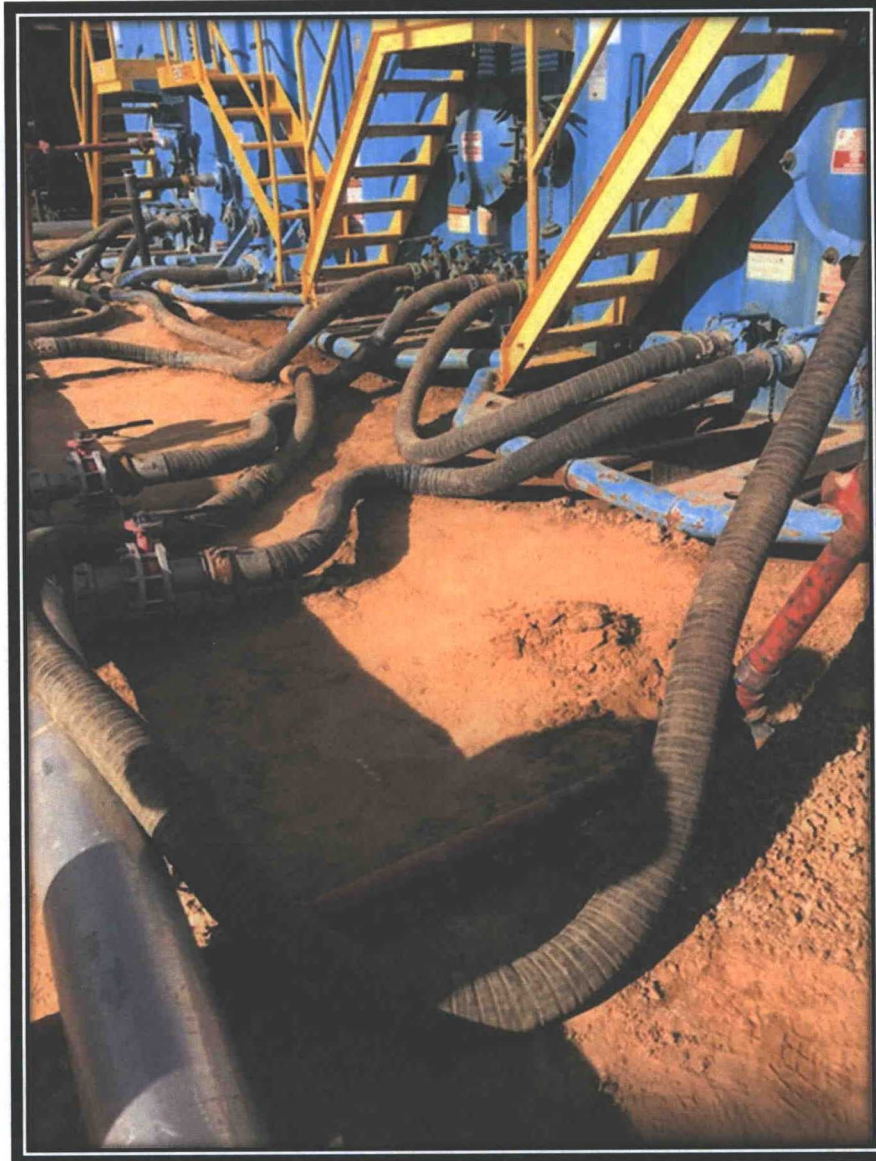


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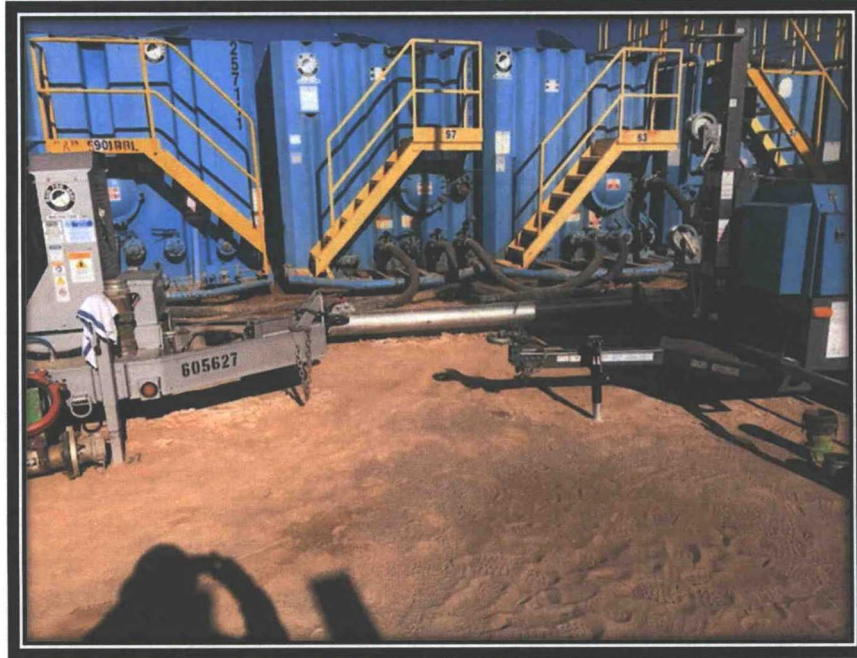


Enduring Resources, LLC
Spill Closure Report
NEU 2207 16B Pond
3RF-28





Enduring Resources, LLC
Spill Closure Report
NEU 2207 16B Pond
3RF-28





National Wetlands Inventory

surface waters and wetlands

ABOUT

GET DATA

PRINT

FIND LOCATION

BASEMAPS >

MAP LAYERS >

- ☒ Wetlands 1 2
- ☐ Riparian 1 2
- ☐ Riparian Mapping Areas 1 2
- ☒ Data Source 1 2
 - ☐ Source Type
 - ☐ Image Scale
 - ☐ Image Year
- ☐ Areas of Interest 2
- ☐ FWS Managed Lands 1 2
- ☐ Historic Wetland Data 1 2



Measure



Feet

Measurement Result

1,322.5 Feet

LEGEND

NEU 2207 16B

1:9,028
36.146 | -107.594

USDA FSA | Esri, HERE, Garmin, IPC | U.S. Fish and Wildlife Service, National Standards and Support Tea...

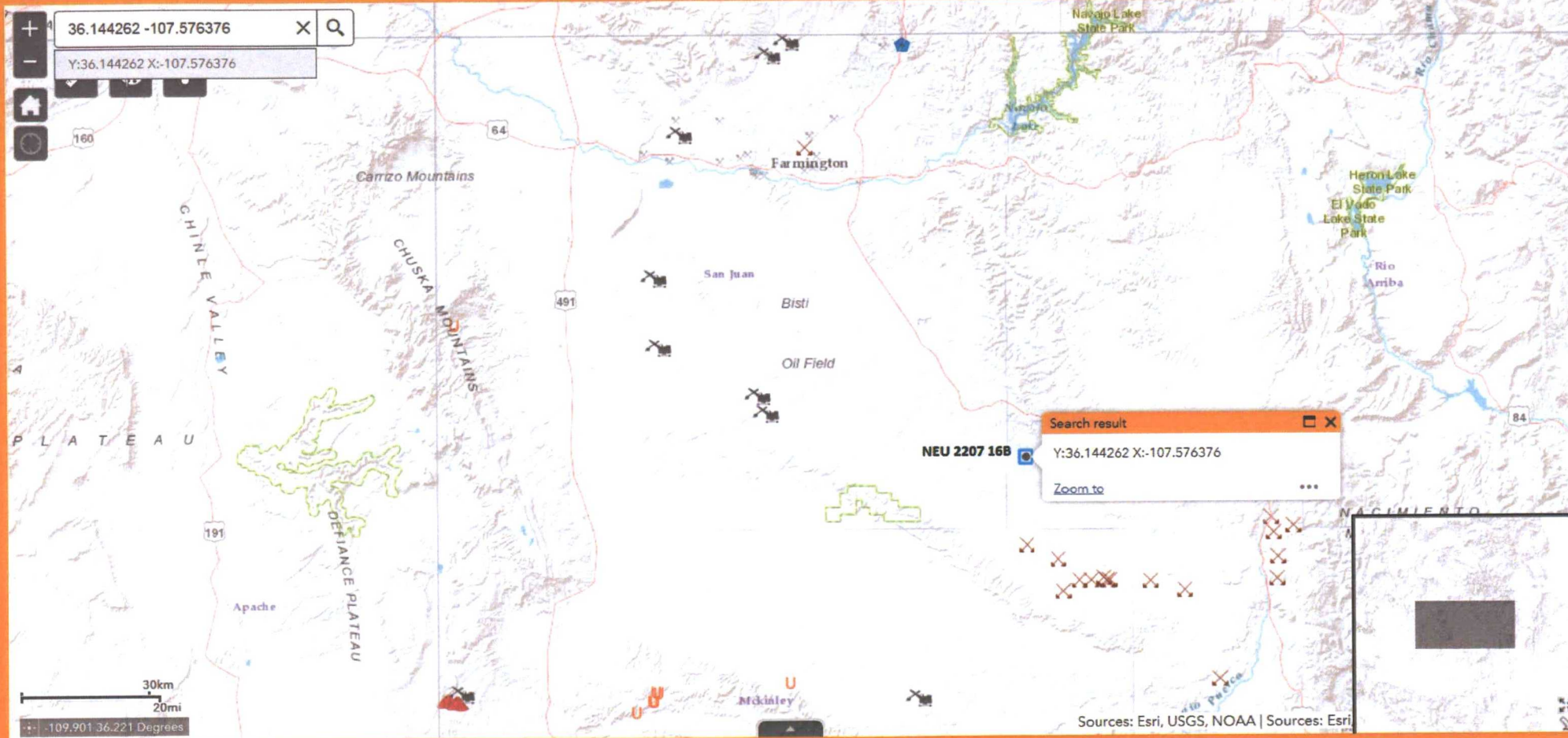
POWERED BY
esri



Registered Mines in New Mexico

NM Mining and Minerals Division

EMNRD Home Help



All rights reserved

National Flood Hazard Layer FIRMeTte



36°8'52.75"N

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

107°34'53.06"W

Navajo Indian Reservation
350THR

TT22N RR07W S9

NEU 2207 16B Pond

AREA OF MINIMAL FLOOD HAZARD
Zone X

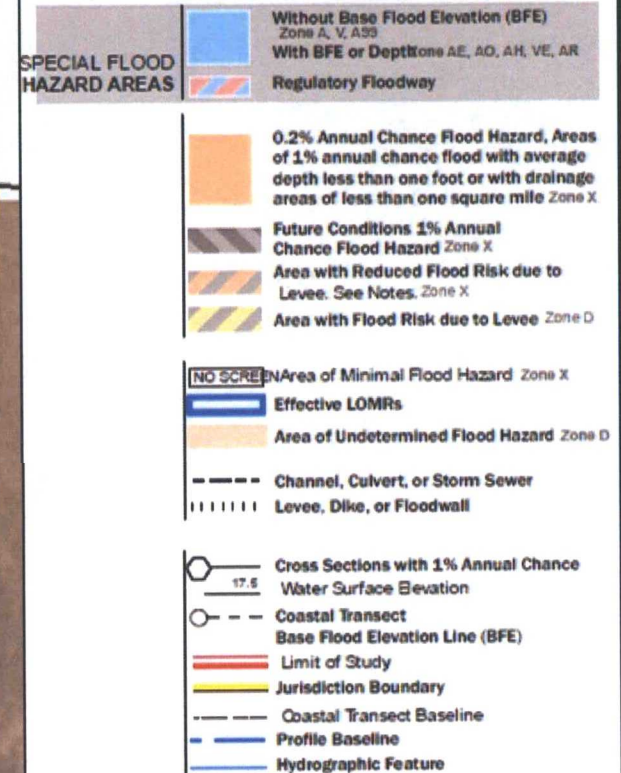
Sandoval County
350055

35043C0050D
Teff: 3/18/2008

USGS The National Map: Orthoimagery. Data refreshed October, 2017.

0 250 500 1,000 1,500 2,000 Feet

36°8'23.69"N



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap

With any changes or amendments subsequent to this date and

time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for

107°34'16.07"W



Ground Bed Drilling Log

Company: WPX Energy

Well: North Escavada UT#329H

Date: 10-12-2016

Location: Sic 10 T 22 N R 7 W

State: New Mexico

Rig: Stang #1

Ground Bed Depth: 340'

Water Depth: 0

Diameter: 10"

Fuel: 88 gal.

Latitude: 36.146522

Longitude: -107.56754

DEPTH

FORMATION

OTHER

0-60

Sand Stone, Shale, Sand w/ Shale w/ Sand

PVC

60-100

Sand Stone, Shale, Sand w/ Shale w/ Sand

100-140

Sand Stone, Shale, Sand w/ Shale w/ Sand

140-190

Sand Stone, Shale, Sand w/ Shale w/ Sand

190-250

Sand Stone, Shale, Sand w/ Shale w/ Sand

250-300

Sand Stone, Shale, Sand w/ Shale w/ Sand

300-340

Sand Stone, Shale, Sand w/ Shale w/ Sand

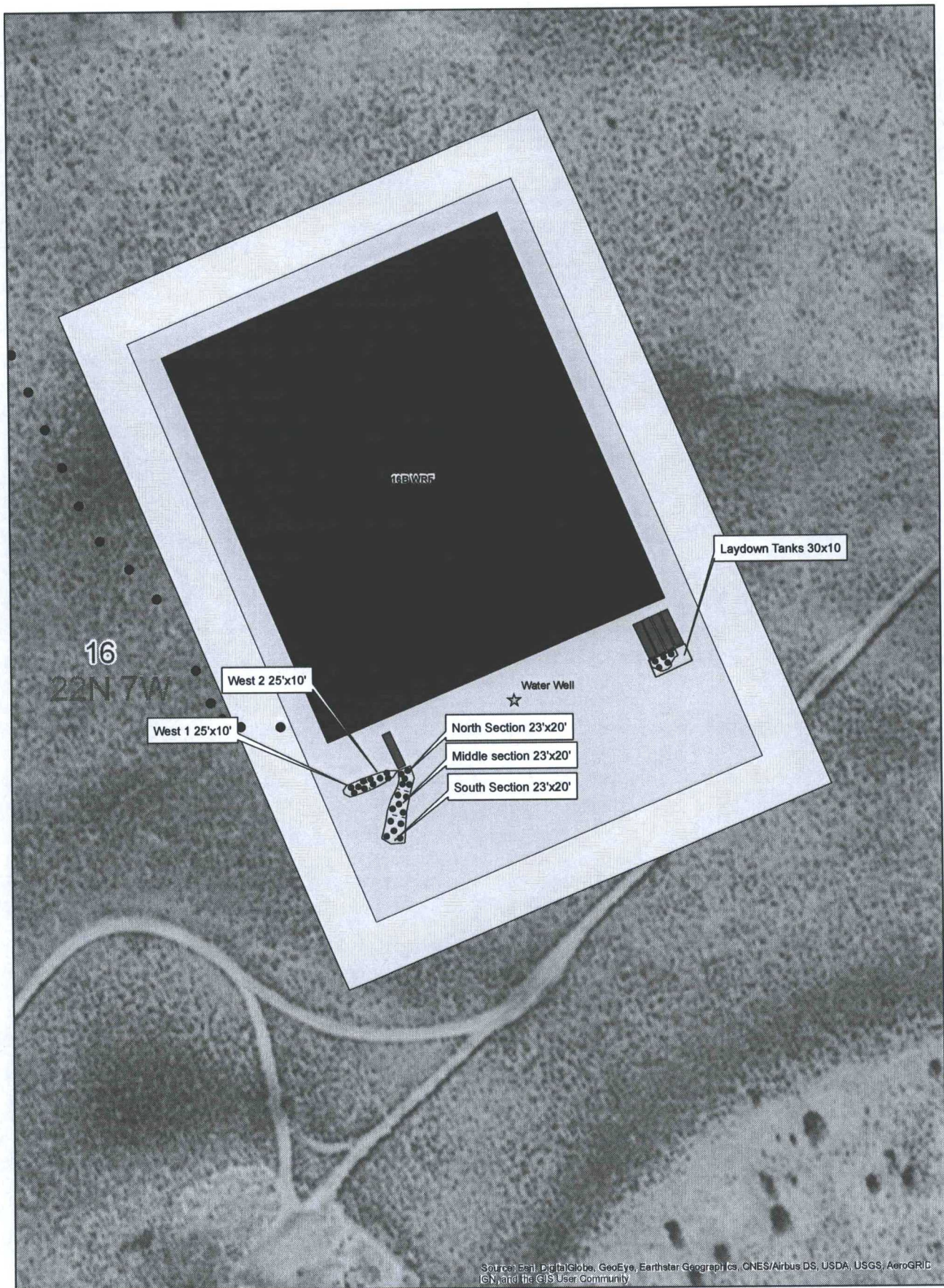
Sand Stone, Shale, Sand w/ Shale w/ Sand

Sand Stone, Shale, Sand w/ Shale w/ Sand

Sand Stone, Shale, Sand w/ Shale w/ Sand

GROUNDWATER DEPTH LOG

Company: WPX Energy			Location: North Escavada UT# 329H
			Lat/Long: 36.146522/-107.56754
			Elevation:
Probe type: Powershell Slinger			
Casing Installation Method:			Push
Required Test Depths 90', 55', & 105' unless otherwise requested			
Date	Time	Depth	Comments
10-12-16	10 am	30'	drilled 30'
	11 am	30'	tested no water
	11:30	55'	drilled to 55'
	12:30	55'	tested No water
	1:45	105'	drilled to 105'
	2:45	105'	tested No water set 60' casing
10-13-16	8:30 am	105'	No water
	11:45	340'	finished anode bed



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Pipeline Points
- Sample Points
- AOI
- Berm
- Laydown tank
- Containment Pond
- Pad
- Construction Disturbance

NEU 2207-16B

Water Facility

0 40 80 160 240 320 Feet

Updated: 2/25/2019

NEU_16B_rwinkler_20181219





ENDURING RESOURCES

ON-SITE FORM

Well Name NEU 2207 16 B API # _____

Section 16 Township 22N Range 7W County Sandoval State NM

Contractors On-Site _____ Time On-Site 8:00am Time Off-Site 12:00pm

Spill Amount 20 bbls Spilled (Oil/ ~~Produced Water~~ / Other _____) Recovered 0

Land Use (Range / Residential / Tribe _____) Spill Area _____ x _____ x _____ deep

Site Diagram

Sample Location

Sample Location

Comments

Corv Smith with NMCD on site

Samples

Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NA		NA
10:15am	1	west # 2	Dev dirt		BOZL, BOIS, chlor
10:20am	2	west # 2	Dev dirt		" "
10:25am	3	North section	Dev dirt		" "
10:30am	4	middle section	Dev dirt		" "
10:35am	5	South section	Dev dirt		" "
10:40am	6	Lay down Tank	Dev dirt		" "

Name (Print) Chad Snell

Date 11-20-18

Name (Signature) [Signature]

Company Enduring Resources, LLC



Analytical Report

Report Summary

Client: Enduring Resources, LLC

Chain Of Custody Number:

Samples Received: 11/2/2018 12:05:00PM

Job Number: 17065-0017

Work Order: P811007

Project Name/Location: NEU 220716B Pond

Report Reviewed By:

Date: 11/6/18

Walter Hinchman, Laboratory Director

Date: 11/6/18

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

Enduring Resources, LLC
 511 16th Street, Suite 700
 Denver CO, 80202

Project Name: NEU 220716B Pond
 Project Number: 17065-0017
 Project Manager: Chad Snell

Reported:
 11/06/18 11:01

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
North Section	P811007-01A	Soil	11/02/18	11/02/18	Glass Jar, 4 oz.
Middle Section	P811007-02A	Soil	11/02/18	11/02/18	Glass Jar, 4 oz.
South Section	P811007-03A	Soil	11/02/18	11/02/18	Glass Jar, 4 oz.
Lay Down Tanks	P811007-04A	Soil	11/02/18	11/02/18	Glass Jar, 4 oz.
West Section	P811007-05A	Soil	11/02/18	11/02/18	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Enduring Resources, LLC
 511 16th Street, Suite 700
 Denver CO, 80202

 Project Name: NEU 220716B Pond
 Project Number: 17065-0017
 Project Manager: Chad Snell

Reported:
 11/06/18 11:01

North Section
P811007-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	

Surrogate: 4-Bromochlorobenzene-PID 102 % 50-150 1844021 11/02/18 11/03/18 EPA 8021B

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1844021	11/02/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	43.8	25.0	mg/kg	1	1844032	11/02/18	11/03/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1844032	11/02/18	11/03/18	EPA 8015D	

Surrogate: 1-Chloro-4-fluorobenzene-FID 101 % 50-150 1844021 11/02/18 11/03/18 EPA 8015D

Surrogate: n-Nonane 100 % 50-200 1844032 11/02/18 11/03/18 EPA 8015D

Anions by 300.0/9056A

Chloride	2640	20.0	mg/kg	1	1845003	11/05/18	11/05/18	EPA 300.0/9056A	
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Enduring Resources, LLC
 511 16th Street, Suite 700
 Denver CO, 80202

 Project Name: NEU 220716B Pond
 Project Number: 17065-0017
 Project Manager: Chad Snell

Reported:
 11/06/18 11:01

Middle Section
P811007-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1844021	11/02/18	11/03/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1844021	11/02/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	42.3	25.0	mg/kg	1	1844032	11/02/18	11/03/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1844032	11/02/18	11/03/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %		50-150	1844021	11/02/18	11/03/18	EPA 8015D	
Surrogate: n-Nonane		98.2 %		50-200	1844032	11/02/18	11/03/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2550	20.0	mg/kg	1	1845003	11/05/18	11/05/18	EPA 300.0/9056A	

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Enduring Resources, LLC
 511 16th Street, Suite 700
 Denver CO, 80202

 Project Name: NEU 220716B Pond
 Project Number: 17065-0017
 Project Manager: Chad Snell

Reported:
 11/06/18 11:01

South Section
P811007-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	

Surrogate: 4-Bromochlorobenzene-PID 103 % 50-150 1844021 11/02/18 11/03/18 EPA 8021B

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1844021	11/02/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1844032	11/02/18	11/03/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1844032	11/02/18	11/03/18	EPA 8015D	

Surrogate: 1-Chloro-4-fluorobenzene-FID 102 % 50-150 1844021 11/02/18 11/03/18 EPA 8015D

Surrogate: n-Nonane 101 % 50-200 1844032 11/02/18 11/03/18 EPA 8015D

Anions by 300.0/9056A

Chloride	1200	20.0	mg/kg	1	1845003	11/05/18	11/05/18	EPA 300.0/9056A	
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Enduring Resources, LLC
 511 16th Street, Suite 700
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 Project Name: NEU 220716B Pond
 Project Number: 17065-0017
 Project Manager: Chad Snell

Reported:
 11/06/18 11:01

Lay Down Tanks
P811007-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1844021	11/02/18	11/03/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1844021	11/02/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	236	25.0	mg/kg	1	1844032	11/02/18	11/03/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1844032	11/02/18	11/03/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %		50-150	1844021	11/02/18	11/03/18	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1844032	11/02/18	11/03/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	216	20.0	mg/kg	1	1845003	11/05/18	11/05/18	EPA 300.0/9056A	

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Enduring Resources, LLC
 511 16th Street, Suite 700
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 Project Name: NEU 220716B Pond
 Project Number: 17065-0017
 Project Manager: Chad Snell

 Reported:
 11/06/18 11:01

West Section
P811007-05 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1844021	11/02/18	11/03/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1844021	11/02/18	11/03/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1844021	11/02/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	30.4	25.0	mg/kg	1	1844032	11/02/18	11/03/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1844032	11/02/18	11/03/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %		50-150	1844021	11/02/18	11/03/18	EPA 8015D	
Surrogate: n-Nonane		102 %		50-200	1844032	11/02/18	11/03/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	2980	20.0	mg/kg	1	1845003	11/05/18	11/05/18	EPA 300.0/9056A	

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: NEU 220716B Pond Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 11/06/18 11:01
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Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1844021 - Purge and Trap EPA 5030A

Blank (1844021-BLK1)				Prepared: 11/01/18 Analyzed: 11/02/18 2						
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	8240		"	8000		103	50-150			

LCS (1844021-BS1)				Prepared: 11/01/18 Analyzed: 11/02/18 2						
Benzene	5140	100	ug/kg	5000		103	70-130			
Toluene	5210	100	"	5000		104	70-130			
Ethylbenzene	5260	100	"	5000		105	70-130			
p,m-Xylene	10800	200	"	10000		108	70-130			
o-Xylene	5200	100	"	5000		104	70-130			
Total Xylenes	16000	100	"	15000		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8280		"	8000		103	50-150			

Matrix Spike (1844021-MS1)				Source: P810127-01		Prepared: 11/01/18 Analyzed: 11/02/18 0				
Benzene	5120	100	ug/kg	5000	396	94.4	54.3-133			
Toluene	5900	100	"	5000	2050	77.1	61.4-130			
Ethylbenzene	5330	100	"	5000	500	96.5	61.4-133			
p,m-Xylene	11400	200	"	10000	2120	92.8	63.3-131			
o-Xylene	5560	100	"	5000	1070	89.7	63.3-131			
Total Xylenes	17000	100	"	15000	3200	91.7	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8200		"	8000		102	50-150			

Matrix Spike Dup (1844021-MSD1)				Source: P810127-01		Prepared: 11/01/18 Analyzed: 11/03/18 0				
Benzene	5090	100	ug/kg	5000	396	93.9	54.3-133	0.471	20	
Toluene	5690	100	"	5000	2050	72.9	61.4-130	3.62	20	
Ethylbenzene	5270	100	"	5000	500	95.4	61.4-133	1.08	20	
p,m-Xylene	11100	200	"	10000	2120	90.2	63.3-131	2.27	20	
o-Xylene	5430	100	"	5000	1070	87.2	63.3-131	2.29	20	
Total Xylenes	16600	100	"	15000	3200	89.2	63.3-131	2.28	20	
Surrogate: 4-Bromochlorobenzene-PID	8070		"	8000		101	50-150			

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: NEU 220716B Pond Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 11/06/18 11:01
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1844021 - Purge and Trap EPA 5030A

Blank (1844021-BLK1)

Prepared: 11/01/18 1 Analyzed: 11/02/18 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		"	8.00		101	50-150			

LCS (1844021-BS2)

Prepared: 11/01/18 1 Analyzed: 11/02/18 2

Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		"	8.00		102	50-150			

Matrix Spike (1844021-MS2)

Source: P810127-01

Prepared: 11/01/18 1 Analyzed: 11/03/18 0

Gasoline Range Organics (C6-C10)	71.1	20.0	mg/kg	50.0	44.0	54.4	70-130			SPK1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.30		"	8.00		104	50-150			

Matrix Spike Dup (1844021-MSD2)

Source: P810127-01

Prepared: 11/01/18 1 Analyzed: 11/03/18 0

Gasoline Range Organics (C6-C10)	63.2	20.0	mg/kg	50.0	44.0	38.5	70-130	11.8	20	SPK1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.24		"	8.00		103	50-150			

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Enduring Resources, LLC 511 16th Street, Suite 700 Denver CO, 80202	Project Name: NEU 220716B Pond Project Number: 17065-0017 Project Manager: Chad Snell	Reported: 11/06/18 11:01
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1844032 - DRO Extraction EPA 3570

Blank (1844032-BLK1)

Prepared: 11/02/18 1 Analyzed: 11/03/18 0

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	50.4		"	50.0		101	50-200			

LCS (1844032-BS1)

Prepared: 11/02/18 1 Analyzed: 11/03/18 0

Diesel Range Organics (C10-C28)	458	25.0	mg/kg	500		91.5	38-132			
Surrogate: n-Nonane	51.1		"	50.0		102	50-200			

Matrix Spike (1844032-MS1)

Source: P811007-01

Prepared: 11/02/18 1 Analyzed: 11/03/18 0

Diesel Range Organics (C10-C28)	526	25.0	mg/kg	500	43.8	96.4	38-132			
Surrogate: n-Nonane	50.5		"	50.0		101	50-200			

Matrix Spike Dup (1844032-MSD1)

Source: P811007-01

Prepared: 11/02/18 1 Analyzed: 11/05/18 1

Diesel Range Organics (C10-C28)	497	25.0	mg/kg	500	43.8	90.7	38-132	5.51	20	
Surrogate: n-Nonane	50.6		"	50.0		101	50-200			

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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: NEU 220716B Pond
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
11/06/18 11:01

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1845003 - Anion Extraction EPA 300.0/9056A

Blank (1845003-BLK1)

Prepared: 11/05/18 0 Analyzed: 11/05/18 1

Chloride	ND	20.0	mg/kg
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LCS (1845003-BS1)

Prepared: 11/05/18 0 Analyzed: 11/05/18 1

Chloride	256	20.0	mg/kg	250	102	90-110
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Matrix Spike (1845003-MS1)

Source: P811007-01

Prepared: 11/05/18 0 Analyzed: 11/05/18 1

Chloride	2950	20.0	mg/kg	250	2640	123	80-120			SPK1
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Matrix Spike Dup (1845003-MSD1)

Source: P811007-01

Prepared: 11/05/18 0 Analyzed: 11/05/18 1

Chloride	2980	20.0	mg/kg	250	2640	136	80-120	1.08	20	SPK1
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Enduring Resources, LLC
511 16th Street, Suite 700
Denver CO, 80202

Project Name: NEU 220716B Pond
Project Number: 17065-0017
Project Manager: Chad Snell

Reported:
11/06/18 11:01

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

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Project Information

Chain of Custody

Page 1 of 13

Client: Enduring Resources LLC
 Project: NEU 2207 16B Pond
 Project Manager: Chad Snell
 Address: 200 Energy Court
 City, State, Zip: Farmington, NM 87401
 Phone: (505) 444-0586
 Email: C.Snell@EnduringResources.com

Report Attention

Report due by: _____
 Attention: _____
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: _____

Lab Use Only

Lab WO# P811007 Job Number 17065-0917

TAT

1D X 3D _____

EPA Program

RCRA _____ CWA _____ SDW _____

Analysis and Method

State

NM X CO _____ UT _____

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1							Remarks
9:20am	11-2-18	SS	1	North section	1	X	X	X			X								
9:25am	11-2-18	SS	1	Middle section	2	X	X	X			X								
9:30am	11-2-18	SS	1	South section	3	X	X	X			X								
9:35am	11-2-18	SS	1	Low down Tanks	4	X	X	X			X								
9:40am	11-2-18	SS	1	West section	5	X	X	X			X								

Additional Instructions: vis. ice in cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Chad Snell - my

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>[Signature]</u>	11-2-18	12:03	<u>[Signature]</u>	11-02-18	12:05
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: Y/N
 T1 _____ T2 _____ T3 _____
 AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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Page 13 of 13

ANALYTICAL REPORT

November 29, 2018

Enduring Resources

Sample Delivery Group: L1046821

Samples Received: 11/23/2018

Project Number:

Description: NEU 2207 16B

Report To: James McDaniel
200 Energy Court
Farmington, NM 87401

Entire Report Reviewed By:



Olivia Studebaker
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

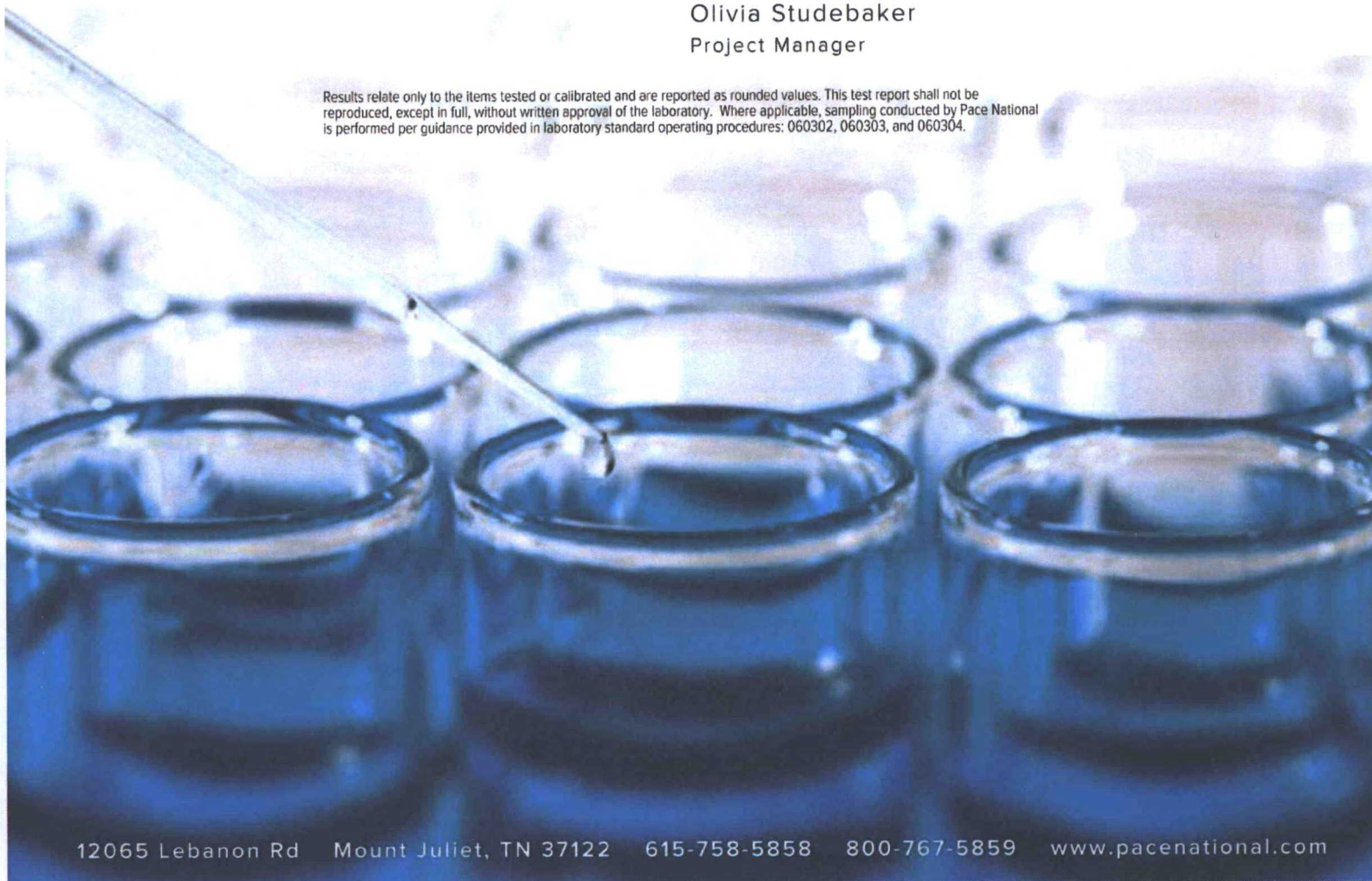


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ONE LAB. NATIONWIDE.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



WEST #1 L1046821-01 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1201773	1	11/27/18 10:36	11/27/18 10:48	JD
Wet Chemistry by Method 9056A	WG1200933	5	11/24/18 11:00	11/29/18 00:57	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1201437	1	11/24/18 08:24	11/27/18 16:21	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1201271	1	11/27/18 07:59	11/29/18 08:18	KME

Collected by
Chad Snell

Collected date/time
11/20/18 10:15

Received date/time
11/23/18 09:30



WEST #2 L1046821-02 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1201773	1	11/27/18 10:36	11/27/18 10:48	JD
Wet Chemistry by Method 9056A	WG1200933	1	11/24/18 11:00	11/29/18 01:05	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1201437	1	11/24/18 08:24	11/27/18 16:44	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1201271	1	11/27/18 07:59	11/29/18 08:33	KME

Collected by
Chad Snell

Collected date/time
11/20/18 10:20

Received date/time
11/23/18 09:30



NORTH L1046821-03 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1201773	1	11/27/18 10:36	11/27/18 10:48	JD
Wet Chemistry by Method 9056A	WG1200933	1	11/24/18 11:00	11/29/18 01:14	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1201437	1	11/24/18 08:24	11/27/18 17:06	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1202380	1	11/28/18 14:13	11/29/18 02:31	AAT

Collected by
Chad Snell

Collected date/time
11/20/18 10:25

Received date/time
11/23/18 09:30



MIDDLE L1046821-04 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1201773	1	11/27/18 10:36	11/27/18 10:48	JD
Wet Chemistry by Method 9056A	WG1200933	5	11/24/18 11:00	11/29/18 01:23	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1201437	1	11/24/18 08:24	11/27/18 17:29	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1202380	1	11/28/18 14:13	11/29/18 02:46	AAT

Collected by
Chad Snell

Collected date/time
11/20/18 10:30

Received date/time
11/23/18 09:30

SOUTH L1046821-05 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1201773	1	11/27/18 10:36	11/27/18 10:48	JD
Wet Chemistry by Method 9056A	WG1200933	1	11/24/18 11:00	11/29/18 01:32	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1201437	1	11/24/18 08:24	11/27/18 17:51	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1202380	1	11/28/18 14:13	11/29/18 03:02	AAT

Collected by
Chad Snell

Collected date/time
11/20/18 10:35

Received date/time
11/23/18 09:30

LAYDOWN TANKS L1046821-06 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1201775	1	11/27/18 12:17	11/27/18 12:29	KBC
Wet Chemistry by Method 9056A	WG1200933	1	11/24/18 11:00	11/29/18 01:40	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1201437	1	11/24/18 08:24	11/27/18 18:13	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1202380	1	11/28/18 14:13	11/29/18 03:18	AAT

Collected by
Chad Snell

Collected date/time
11/20/18 10:40

Received date/time
11/23/18 09:30



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Olivia Studebaker
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

WEST #1

Collected date/time: 11/20/18 10:15

SAMPLE RESULTS - 01

L1046821

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.8		1	11/27/2018 10:48	WG1201773

Cp

Tc

Wet Chemistry by Method 9056A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chloride	663		50.0	5	11/29/2018 00:57	WG1200933

Ss

Cn

Sr

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000508		0.000500	1	11/27/2018 16:21	WG1201437
Toluene	ND		0.00500	1	11/27/2018 16:21	WG1201437
Ethylbenzene	ND		0.000500	1	11/27/2018 16:21	WG1201437
Total Xylene	ND		0.00150	1	11/27/2018 16:21	WG1201437
TPH (GC/FID) Low Fraction	ND		0.100	1	11/27/2018 16:21	WG1201437
(S) a,a,a-Trifluorotoluene(FID)	96.0		77.0-120		11/27/2018 16:21	WG1201437
(S) a,a,a-Trifluorotoluene(PID)	96.7		72.0-128		11/27/2018 16:21	WG1201437

Qc

GI

Al

Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	11/29/2018 08:18	WG1201271
C28-C40 Oil Range	11.7		4.00	1	11/29/2018 08:18	WG1201271
(S) o-Terphenyl	89.0		18.0-148		11/29/2018 08:18	WG1201271

WEST #2

Collected date/time: 11/20/18 10:20

SAMPLE RESULTS - 02

L1046821

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.8		1	11/27/2018 10:48	WG1201773

Cp

Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	119		10.0	1	11/29/2018 01:05	WG1200933

Ss

Cn

Sr

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	11/27/2018 16:44	WG1201437
Toluene	ND		0.00500	1	11/27/2018 16:44	WG1201437
Ethylbenzene	ND		0.000500	1	11/27/2018 16:44	WG1201437
Total Xylene	ND		0.00150	1	11/27/2018 16:44	WG1201437
TPH (GC/FID) Low Fraction	ND		0.100	1	11/27/2018 16:44	WG1201437
(S) o,a,a-Trifluorotoluene(FID)	96.5		77.0-120		11/27/2018 16:44	WG1201437
(S) o,a,a-Trifluorotoluene(PID)	99.8		72.0-128		11/27/2018 16:44	WG1201437

Qc

Gl

Al

Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	11/29/2018 08:33	WG1201271
C28-C40 Oil Range	6.09		4.00	1	11/29/2018 08:33	WG1201271
(S) o-Terphenyl	73.8		18.0-148		11/29/2018 08:33	WG1201271



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	11/27/2018 10:48	WG1201773

Wet Chemistry by Method 9056A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chloride	521		10.0	1	11/29/2018 01:14	WG1200933

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	11/27/2018 17:06	WG1201437
Toluene	ND		0.00500	1	11/27/2018 17:06	WG1201437
Ethylbenzene	ND		0.000500	1	11/27/2018 17:06	WG1201437
Total Xylene	ND		0.00150	1	11/27/2018 17:06	WG1201437
TPH (GC/FID) Low Fraction	ND		0.100	1	11/27/2018 17:06	WG1201437
(S) <i>o</i> , <i>a</i> , <i>a</i> -Trifluorotoluene(FID)	95.3		77.0-120		11/27/2018 17:06	WG1201437
(S) <i>o</i> , <i>a</i> , <i>a</i> -Trifluorotoluene(PID)	95.6		72.0-128		11/27/2018 17:06	WG1201437

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	22.5		4.00	1	11/29/2018 02:31	WG1202380
C28-C40 Oil Range	10.6		4.00	1	11/29/2018 02:31	WG1202380
(S) <i>o</i> -Terphenyl	89.5		18.0-148		11/29/2018 02:31	WG1202380

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

MIDDLE

Collected date/time: 11/20/18 10:30

SAMPLE RESULTS - 04

L1046821

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.9		1	11/27/2018 10:48	WG1201773

Cp

Tc

Wet Chemistry by Method 9056A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chloride	1200		50.0	5	11/29/2018 01:23	WG1200933

Ss

Cn

Sr

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	11/27/2018 17:29	WG1201437
Toluene	ND		0.00500	1	11/27/2018 17:29	WG1201437
Ethylbenzene	ND		0.000500	1	11/27/2018 17:29	WG1201437
Total Xylene	ND		0.00150	1	11/27/2018 17:29	WG1201437
TPH (GC/FID) Low Fraction	ND		0.100	1	11/27/2018 17:29	WG1201437
(S) a,a,a-Trifluorotoluene(FID)	96.5		77.0-120		11/27/2018 17:29	WG1201437
(S) a,a,a-Trifluorotoluene(PID)	95.7		72.0-128		11/27/2018 17:29	WG1201437

Qc

Gl

Al

Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	40.9		4.00	1	11/29/2018 02:46	WG1202380
C28-C40 Oil Range	6.63		4.00	1	11/29/2018 02:46	WG1202380
(S) o-Terphenyl	84.7		18.0-148		11/29/2018 02:46	WG1202380



Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.2		1	11/27/2018 10:48	WG1201773

Cp

Tc

Wet Chemistry by Method 9056A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chloride	661		10.0	1	11/29/2018 01:32	WG1200933

Ss

Cn

Sr

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000875		0.000500	1	11/27/2018 17:51	WG1201437
Toluene	ND		0.00500	1	11/27/2018 17:51	WG1201437
Ethylbenzene	ND		0.000500	1	11/27/2018 17:51	WG1201437
Total Xylene	ND		0.00150	1	11/27/2018 17:51	WG1201437
TPH (GC/FID) Low Fraction	ND		0.100	1	11/27/2018 17:51	WG1201437
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.7		77.0-120		11/27/2018 17:51	WG1201437
(S) <i>a,a,a</i> -Trifluorotoluene(PID)	97.1		72.0-128		11/27/2018 17:51	WG1201437

Qc

Gl

Al

Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	16.8		4.00	1	11/29/2018 03:02	WG1202380
C28-C40 Oil Range	15.6		4.00	1	11/29/2018 03:02	WG1202380
(S) <i>o</i> -Terphenyl	81.1		18.0-148		11/29/2018 03:02	WG1202380

LAYDOWN TANKS

Collected date/time: 11/20/18 10:40

SAMPLE RESULTS - 06

L1046821

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.6		1	11/27/2018 12:29	WG1201775

Cp

Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	191	J3	10.0	1	11/29/2018 01:40	WG1200933

Ss

Cn

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	11/27/2018 18:13	WG1201437
Toluene	ND		0.00500	1	11/27/2018 18:13	WG1201437
Ethylbenzene	ND		0.000500	1	11/27/2018 18:13	WG1201437
Total Xylene	ND		0.00150	1	11/27/2018 18:13	WG1201437
TPH (GC/FID) Low Fraction	ND		0.100	1	11/27/2018 18:13	WG1201437
(S) o,a,a-Trifluorotoluene(FID)	97.5		77.0-120		11/27/2018 18:13	WG1201437
(S) o,a,a-Trifluorotoluene(PID)	97.0		72.0-128		11/27/2018 18:13	WG1201437

Sr

Qc

Gl

Al

Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	16.0		4.00	1	11/29/2018 03:18	WG1202380
C28-C40 Oil Range	9.47		4.00	1	11/29/2018 03:18	WG1202380
(S) o-Terphenyl	76.1		18.0-148		11/29/2018 03:18	WG1202380

WG1201773

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L1046821-01,02,03,04,05](#)

Method Blank (MB)

(MB) R3363531-1 11/27/18 10:48

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

Cp

²Tc³Ss⁴Cn⁵Sr⁶Qc

L1046801-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1046801-02 11/27/18 10:48 • (DUP) R3363531-3 11/27/18 10:48

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	96.6	97.2	1	0.635		10

Laboratory Control Sample (LCS)

(LCS) R3363531-2 11/27/18 10:48

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

⁷Gl⁸Al⁹Sc

WG1201775

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L1046821-06](#)

Method Blank (MB)

(MB) R3363518-1 11/27/18 12:29

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1046859-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1046859-01 11/27/18 12:29 • (DUP) R3363518-3 11/27/18 12:29

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	79.1	79.8	1	0.824		10

Laboratory Control Sample (LCS)

(LCS) R3363518-2 11/27/18 12:29

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCOUNT:

Enduring Resources

PROJECT:

SDG:

L1046821

DATE/TIME:

11/29/18 16:52

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WG1200933

Wet Chemistry by Method 9056A

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L1046821-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R3363874-1 11/28/18 21:35

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		0.795	10.0

L1046533-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1046533-05 11/28/18 22:01 • (DUP) R3363874-3 11/28/18 22:10

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	13600	14500	20	5.88		15

L1046821-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1046821-06 11/29/18 01:40 • (DUP) R3363874-6 11/29/18 01:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	191	148	1	24.9	J3	15

Laboratory Control Sample (LCS)

(LCS) R3363874-2 11/28/18 21:44

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	208	104	80.0-120	

L1046816-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1046816-02 11/29/18 00:13 • (MS) R3363874-4 11/29/18 00:22 • (MSD) R3363874-5 11/29/18 00:30

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	68.7	609	589	108	104	1	80.0-120			3.31	15

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG1201437

Volatile Organic Compounds (GC) by Method 8015/8021

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L1046821-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R3363346-4 11/27/18 12:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	U		0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	0.0373	↓	0.0217	0.100
(S)				
a,a,a-Trifluorotoluene(FID)	103			77.0-120
(S)				
a,a,a-Trifluorotoluene(PID)	103			72.0-128

Laboratory Control Sample (LCS)

(LCS) R3363346-1 11/27/18 10:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0523	105	76.0-121	
Toluene	0.0500	0.0534	107	80.0-120	
Ethylbenzene	0.0500	0.0540	108	80.0-124	
Total Xylene	0.150	0.168	112	37.0-160	
(S)					
a,a,a-Trifluorotoluene(FID)			102	77.0-120	
(S)					
a,a,a-Trifluorotoluene(PID)			101	72.0-128	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3363346-2 11/27/18 11:10 • (LCSD) R3363346-3 11/27/18 11:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.53	6.54	119	119	72.0-127			0.185	20
(S)										
a,a,a-Trifluorotoluene(FID)				108	106	77.0-120				
(S)										
a,a,a-Trifluorotoluene(PID)				115	115	72.0-128				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG1201271

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.



Semi-Volatile Organic Compounds (GC) by Method 8015

[L1046821-01,02](#)

Method Blank (MB)

(MB) R3363864-1 11/29/18 04:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	86.8			18.0-148

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3363864-2 11/29/18 05:09 • (LCSD) R3363864-3 11/29/18 05:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	38.0	40.8	76.0	81.6	50.0-150			7.11	20
(S) o-Terphenyl				85.9	90.5	18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

WG1202380

Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

[L1046821-03,04,05,06](#)

Method Blank (MB)

(MB) R3363865-1 11/28/18 23:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	80.3			18.0-148

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3363865-2 11/28/18 23:40 • (LCSD) R3363865-3 11/28/18 23:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Extractable Petroleum Hydrocarbon	50.0	33.6	35.9	67.2	71.8	50.0-150			6.62	20
C10-C28 Diesel Range	50.0	36.2	38.5	72.4	77.0	50.0-150			6.16	20
(S) o-Terphenyl				81.4	80.5	18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

Cp

²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

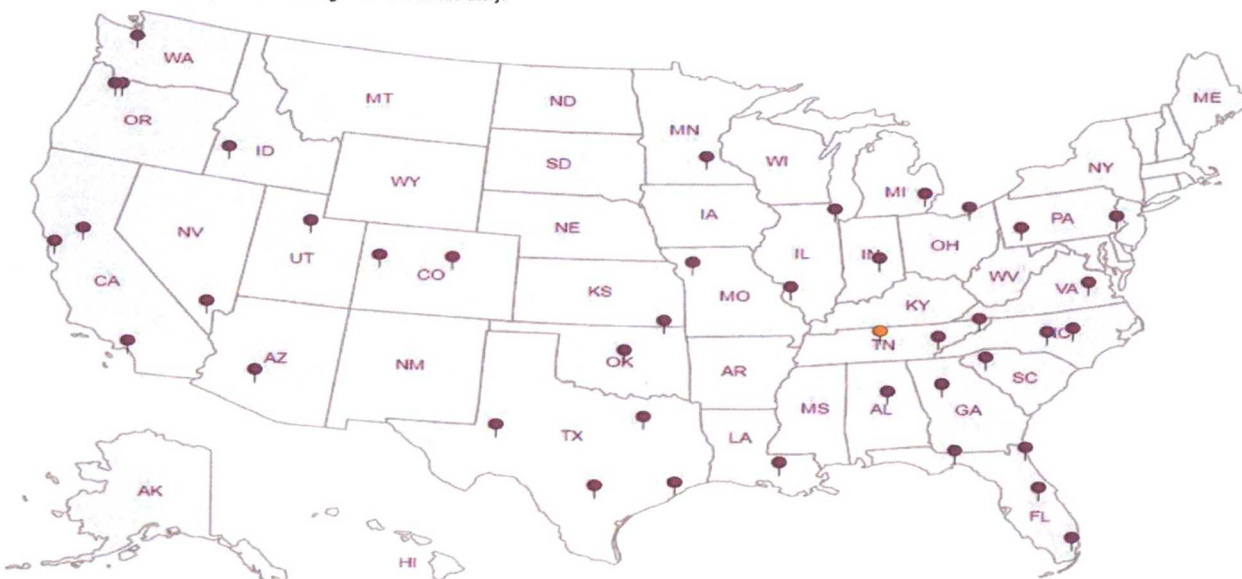
Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA - ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ACCOUNT:
Enduring Resources

PROJECT:

SDG:
L1046821

DATE/TIME:
11/29/18 16:52

PAGE:
18 of 19



Enduring Resources

332 County Road 3100 200 Energy Court
Aztec, NM 87410 Farmington, NM, 87401

Billing Information:

James McDaniel
332 County Road 3100
Aztec, NM 87410

Pres
Chk

Report to:

James McDaniel

Email To:

JMcDaniel@enduringresources.com

Project

Description: NEU 2207 16B

City/State
Collected:

Phone: 505-636-9731

Client Project #

Lab Project #

Fax:

Collected by (print):

Chad Snell

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

Immediately

Packed on Ice N ☐ Y ☒

No.
of
Cntrs

8021 (BTEX)
8015 (URO/DRO/MRO)
Chlorides

Analysis / Container / Preservative

Chain of Custody Page of



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 1046821

H194

Acctnum: ENDRESANM

Template:

Prelogin:

TSR: 288 - Daphne Richards

PB:

Shipped Via:

Remarks

Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs														
West #1	Comp	SS		11/20/18	10:15am	1	X	X	X											01
West #2	Comp	SS		11/20/18	10:20am	1	X	X	X											02
North	Comp	SS		11/20/18	10:25am	1	X	X	X											03
Middle	Comp	SS		11/20/18	10:30am	1	X	X	X											04
South	Comp	SS		11/20/18	10:35am	1	X	X	X											05
Laydown Tanks	Comp	SS		11/20/18	10:40am	1	X	X	X											06

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Wastewater
DW - Drinking Water
OT - Other

Remarks:

Samples returned via:

UPS ☒ FedEx ☐ Courier ☐

Tracking # 4196 3260 1714

pH Temp

Flow Other

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N

Relinquished by: (Signature)

Date:

Time:

11-21-18

8:00am

Received by: (Signature)

Trip Blank Received: Yes ☒ No ☐
HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 4.6 °C
Bottles Received: 6
4.6 - 3 = 4.3

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 11/23/18
Time: 0930

Hold:

Condition
NCF 100